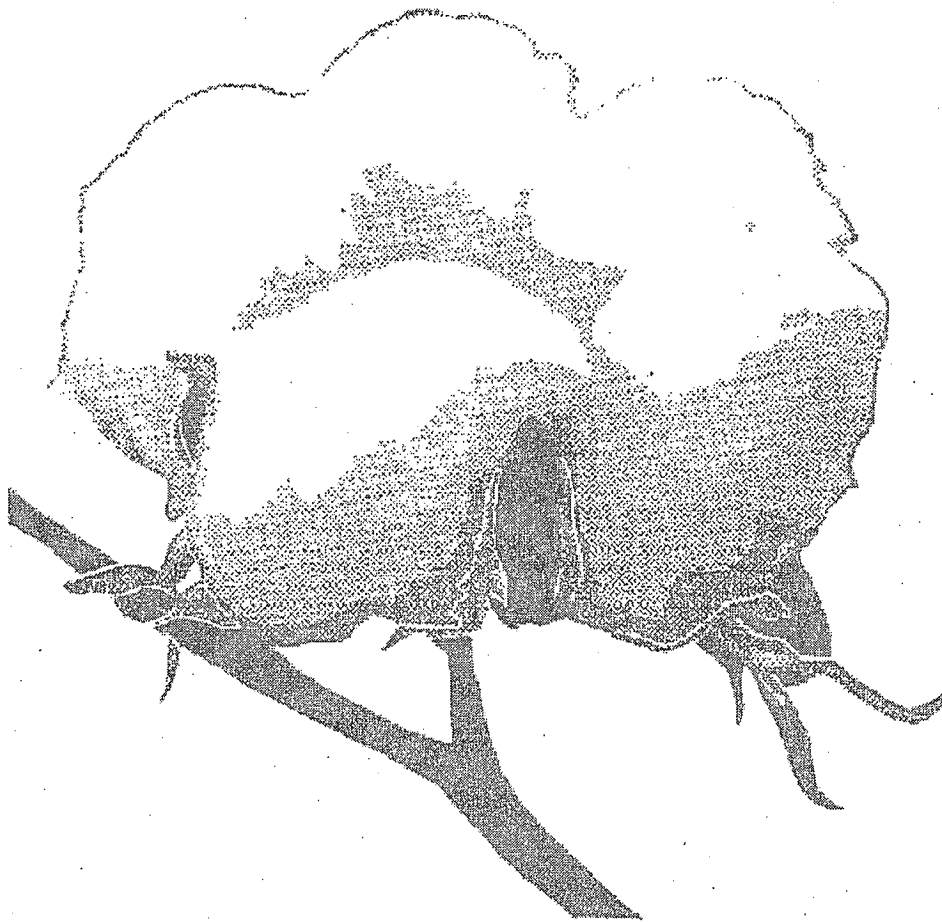


2010 COTTON BOLL WEEVIL TRAPPING GUIDELINES

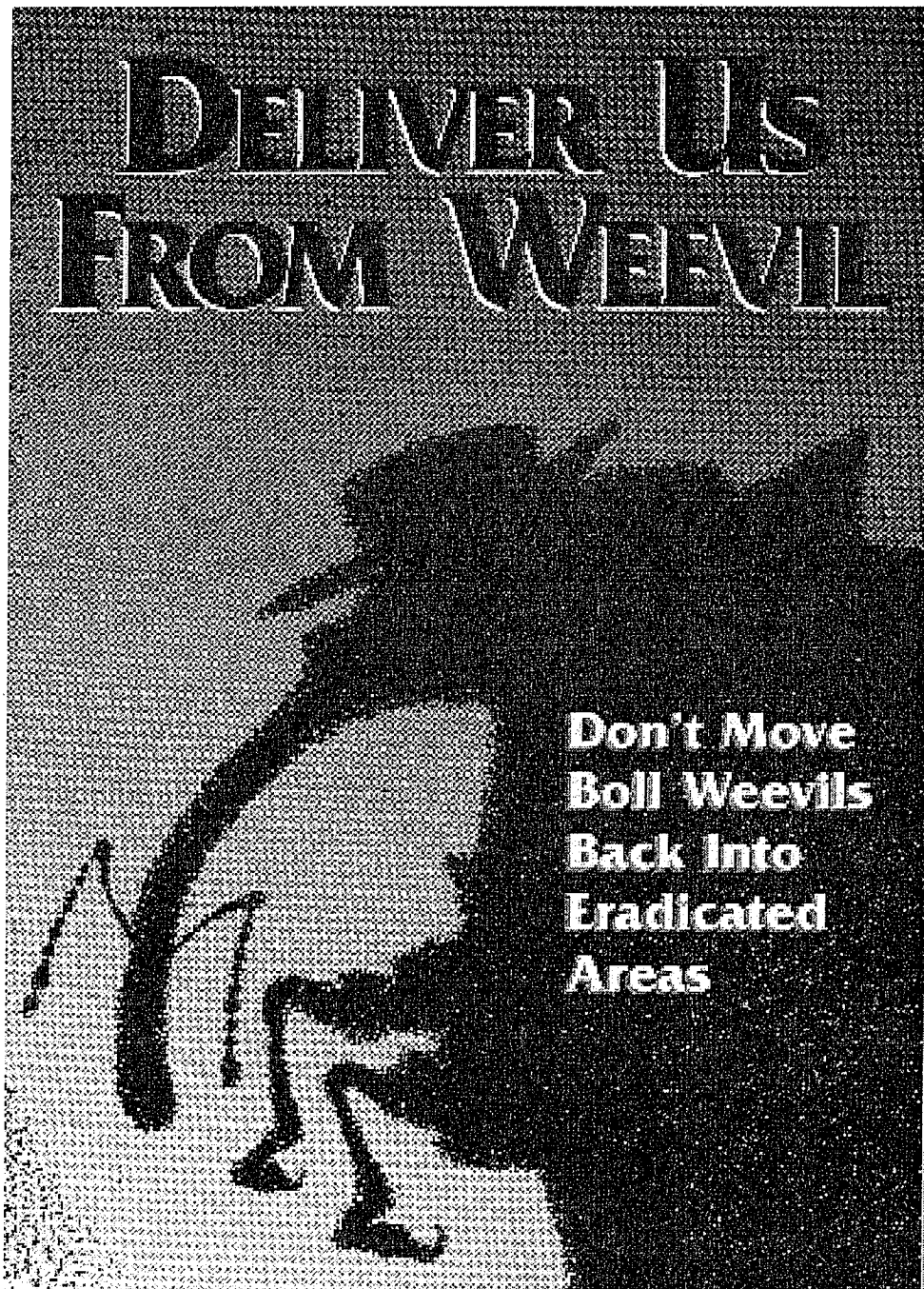


*VIRGINIA DEPARTMENT
OF AGRICULTURE AND
CONSUMER SERVICES*

Office of Plant Industry Services
1100 Armory Drive, Apt. 120
Franklin, Virginia 23851
(757) 562-6637

**VDACS-OFFICE OF PLANT INDUSTRY SERVICES
USDA-APHIS-PLANT PROTECTION & QUARANTINE
SOUTHEASTERN BOLL WEEVIL ERADICATION FOUNDATION
VIRGINIA BOLL WEEVIL ERADICATION FOUNDATION**

***Working Together
To Protect Virginia's Cotton Industry From Boll Weevil Infestation***



These Guidelines are to assist the trapper in the placement and monitoring of cotton boll weevil traps. Keep these Guidelines with you and refer to them during your trapping activities. If there is a question of interpretation of any portion of these guidelines, the VDACS Cotton Trapping Field Coordinator will make the final determination.

COUNTY ASSIGNMENTS

Each CBW trapper is assigned a trapping area as listed below. The trapper is to install and service all traps in the assigned trapping area on a regular basis as instructed. Traps must be checked carefully and on a regular schedule. The 2009 assigned trapping localities are as follows:

Brunswick County	Carson
Charles City County	Carson
Dinwiddie County	Carson
Greensville County.....	Carson
Henrico County	Carson
Isle of Wight County.....	Smith-Heizer
King & Queen County	Carson
King William County.....	Carson
Northampton County.....	VDACS
New Kent	Carson
Prince George County.....	Carson
Southampton County	Baker
Suffolk City.....	Smith-Heizer
Surry County	Carson
Sussex County.....	Carson

DEFINITIONS

CYCLE: A cycle is the period in which the trapping assignment is to be completed. Traps are to be installed in Cycle 1, serviced in Cycles 2 – 4, and removed in Cycle 5. Traps must be serviced once every three (3) weeks except during Cycle 2. Cycle 2 servicing of traps should occur in the same order as the initial placement of traps during Cycle 1. Beginning with Cycle 3, the trapping schedule should be maintained such that servicing will occur 20 to 22 days from the previous servicing date; for example: If a trap was serviced in Cycle 2 on September 2, the Cycle 3 service date shall occur on September 22 - 24. See 2010 Trapping Schedule, page 9.

PHEROMONE DISPENSER/LURE/BAIT: Pheromone lures give off a scent, called a pheromone, which draws weevils to the trap. The scent of the lure and the color of the trap are both important in attracting boll weevils. Each lure lasts approximately three (3) weeks, and then a new one must be added to the trap. A lure is removed once it has been in the trap for two cycles (this will be six weeks except for the lure that is removed in Cycle 2).

TRAP: The cotton boll weevil trap is standard survey tool used to detect and delimit cotton boll weevil infestations. The green-yellow color acts as a visual attractant and the pheromone lure,

found within the trap, acts as a chemical attractant to boll weevils. The trap is placed approximately three (3) feet above the ground on top of a 4-5 foot fiberglass rod. Clean, bright traps with fresh lure are the most effective for attracting and catching boll weevils. See Trap Components, page 12.

VAPONA DISPENSER/KILL STRIP: Pesticide impregnated strip that is used to kill weevils that enter the trap. After a weevil enters the trap, it will crawl around the inside of the trap cylinder trying to escape. To keep the weevils from escaping, a vaponas dispenser is placed in the cylinder of each trap. As the captured weevil crawls around the cap, it is exposed to the insecticide and killed. A fresh dispenser/strip must be added in Cycle 3 of the trapping season. When traps are removed at the end of the season, remember to dispose of the used dispensers properly by wrapping them in paper and discarding in the trash. **Always wear gloves and follow label instructions when handling strips. Material Safety Data Sheets for the strips can be found in these instructions.**

TRAP PLACEMENT INSTRUCTIONS

Site Selection:

- Trap site selection should be based on **safety** and accessibility. Place traps along roads for easy access.

Safety is of utmost importance and should be taken into consideration when determining trap location. Traps must be placed at a location where you can pull off to the side of the road in a manner that is safe for both you and other vehicles on the road. If traps cannot be placed and serviced safely, find another location for the trap. For your safety, do not place traps along high traffic roads.

- Traps should be placed along sunny borders of fields and placed to permit the highest degree of exposure to all portions of the field. Traps should not be placed at the corners of fields. Traps must be placed near the cotton field edge - not farther than 10 feet from the cotton is preferred; however, after the site is selected, the trap shall be set where least likely to be disturbed by farm or road equipment. Leave room for tractors to turn at the end of the rows. Trap location along with trap number must be noted on all fields plotted on maps; this must be done during initial trap installation.
- Traps must not be placed on shaded, wooded sides of fields if sufficient coverage can be obtained along open sides of fields. Place traps along roadways and farm paths if available, where traffic is most likely to occur in order to catch weevils hitchhiking on vehicles and farm equipment from other areas. Fields that are not adjacent to roadways will usually have a farm path that will provide accessibility.
- Traps must be placed where they are visible to boll weevils. They must not be placed next to telephone poles or trees where they face **away** from the cotton field to be trapped. If you need assistance in getting the grower to mow the edge of the field, contact VDACS.

- Some cotton fields may be inaccessible due to a locked gate or cable. If access to a cotton field is blocked, the trapper should attempt to place the trap on another field within the grid. If no other fields are available, the trapper will have to walk to the field to place and service the trap. After the trap is placed, the trapper should attempt to contact the farmer in order to gain access thru the locked gate or contact the Cotton Boll Weevil Trapping Coordinator for assistance in gaining access to the field.
- Proper trapping density requires that each cotton field be no more than one-half mile from a trap. Take this requirement into consideration when placing traps. For most efficient trap placement, plan ahead to ensure this requirement is met. In some instances, this may require more than one trap per trapping grid.

Trapping Density:

- Traps must be placed at a rate of one trap per one-quarter square mile (0.5 mile x 0.5 mile). One-quarter square mile grid lines are drawn on maps and are to be used to determine location of trap placement. Once the trap has been placed, mark the location on your map with an "X" along with the four digit trap number.

Installation Date:

- Setting of traps shall begin July 29, 2010. Traps must be in place by August 28, 2010.

Scanner Bar Codes:

- Scanner bar codes must be placed on inside of trap cup. Bar codes will be supplied by VDACS.

Fiberglass Rods:

- Traps are to be placed on the top of fiberglass rods. Sink rod into ground at least six inches. Use both hands on the rod bottom. (You cannot do this while leaning outside of a vehicle). Use a rod driver when the ground is dry and hard. Always make sure the rod is upright and not leaning.
- Unless otherwise instructed, use only fiberglass rods supplied by VDACS for trap placement. **DO NOT** put traps on fence posts, because the post will keep weevils from climbing up the inside of the cup.

Trap Maintenance:

- Be sure every trap you put out has a fresh lure in it and all trap components fit together tightly.
- Be sure the entry hole in the screen cone is open and the cylinder is locked into place.
- Keep vines and weeds away from traps to ensure effectiveness.
- Do not drop old lures and kill strips on the ground. Carry old lures and kill strips with you and dispose of properly.
- Write the date of the installation and service visits on the traps.

MAPS

The grid lines on each map are one-quarter square mile (.5 mile x .5 mile). One trap is to be placed at one cotton field in each quarter-mile grid. All cotton fields must be within one-half mile of a trap; installation of more than one trap per grid may be necessary to meet this requirement.

Plan your trapping so that you can be as efficient as possible. Place traps along county roads whenever it is safe to do so. In some cases, you may be required to drive along a farm road in order to access the cotton fields. When access to the only cotton field in a grid is limited to a farm path, trappers must walk to the field to install the trap.

When one field is located in two different grids (the grid line goes across the field) do not place two traps in order to meet the one trap per quarter square mile trapping density. When encountering these situations, only place one trap. **However, all fields must be within one-half mile of a trap, therefore the proper location of traps along these fields can save time.**

INTERSTATE HIGHWAYS AND RAILROADS

The highest risk areas for infestation from the boll weevil are along major highways and railroads. Whenever cotton fields are adjacent to Interstate 95, Interstate 85, or railroads, place a trap between these cotton fields and the interstate/railroad for extra protection. In many cases, this will require driving along a farm path to get to the edge of these fields.

TRAPPER IDENTIFICATION:

- **Identification Sign:** So that trappers are easily identified, each trapper must display a Virginia Boll Weevil Eradication Foundation sign on their vehicle whenever placing, servicing, or removing traps. This magnetic sign must be on the driver's side of their vehicle at all times during the course of each day's work. Upon exiting the last field of the day, the trapper must remove this sign from their vehicle.
- **Frequent Stops Sign:** For safety reasons, keep the Cotton Boll Weevil Frequent Stops Sign on the rear of your vehicle at all times during the course of each day's work.
- **Flashing Light:** Trappers must display a flashing yellow light on the roof of their vehicle whenever they are placing, servicing, or removing traps. This light must also remain on and properly functioning any time the trapper is in a field. Upon exiting the last field of the day, the trapper must remove the flashing yellow light and store it inside their vehicle.

TRAP MARKING:

Each trap must be marked with the date trap was set and each servicing date. These dates must be placed on the outside of the cup with a grease pencil or waterproof marker. This helps trappers, supervisors, and growers identify each field and know you are checking the traps on schedule. See Trap Components, page 12.

SERVICING TRAPS:

- Traps must be serviced every three (3) weeks except during Cycle 2. Cycle 2 servicing of traps should occur in the same order as trap placement in Cycle 1. Cycle 2 servicing begins August 29, 2010 and must be completed by September 18, 2010. Beginning with Cycle 3, the trapping schedule must be maintained such that servicing shall occur 20 to 22 days from the previous servicing date. See page 9 for complete schedule.
- At each servicing, a fresh pheromone dispenser (lure) shall be placed in the trap. Dispensers must be left in the trap for six (6) weeks. On the third and subsequent servicing rounds, the older dispenser must be removed from the trap. Dispensers must be marked with the current cycle number (1, 2, 3, 4, or 5) for easy identification. Starting with Cycle 2, there will always be two lures in the trap.
- Old dispensers must be taken from the field for disposal. **Do not throw the dispensers on the ground.**
- Insecticide strips are to be placed in trap at trap placement and again during Cycle 3. The old insecticide strip can remain in the trap until trap removal in Cycle 5.
- Each trap must be dated when serviced with an acceptable indelible marker. Write the date on the outside of the trap as record of your visit.
- During each trap service visit, you must check carefully for boll weevils. If weevil(s) are present, put them in an empty, clean glass vial with a collection label like the one shown below. Dump all other bugs out of the cylinder at the top of the trap and keep it clean. Note: Check the trap by removing the cap. DO NOT attempt to remove the cylinder from the screen as it will eventually cause the component to break. If you catch boll weevils in a field, enter the number of weevil(s) caught in the scanner and fill out a label like the one below. Put the tag on the container with the weevils, and give them to your Field Unit Supervisor.

Name: _____
County: _____
Map No. _____
Trap No: _____
Date: _____

Trappers must contact Franklin Office within 24 hours of finding weevil.

Functional Traps: Non-functional, inoperable, or missing trap components must be replaced immediately. A functional trap must meet the following requirements:

1. All components are present and correctly assembled.
2. There is no distortion in the screen permitting any space between the screen and the cylinder.

3. The entry hole at the top of the screen is open and without distortion.
4. Both a current pest strip and lure(s) are in place on the inside of the trap cylinder.
5. The screen and cylinder are clean and free of mud or other foreign matter.
6. The trap is properly mounted on a stake.
7. Weeds and vines are kept away from traps to ensure visibility and effectiveness.

Properly dispose of all used traps (including lures and kill strips) in a local trash receptacle or a sanitary landfill. Return all **unused trapping supplies** (trap components, lures, kill strips, fiberglass rods, etc.) to the Trapping Field Coordinator at the end of the trapping season.

BIOSECURITY

VDACS has implemented the BioSecurity Plan to prevent the spread of Foot and Mouth Disease and Avian Influenza. All VDACS employees, including wage and contract personnel, must strictly adhere to this plan when activities require travel into or from areas where contamination may occur. For more information refer to Attachment VII, page 11, BioSecurity Practices. In order to minimize this risk, trappers should avoid livestock and poultry farms when possible.

CONTACT TELEPHONE NUMBERS:

The primary contact phone number for the Cotton Boll Weevil Trapping Program is **757/562-6637**. Use this number to contact the Cotton Trapping Field Coordinator (Charles Hood) or the Southeast Regional Supervisor (Gina Goodwyn) to report trapped boll weevils or for any other needs.

CBW Program contacts:

Gina Goodwyn, Regional Supervisor – Office of Plant Industry Services
Phone: 757/562-6637 (Office)
Phone: 757/334-0042 (Cell)

Charles Hood, Cotton Boll Weevil Trapping Field Coordinator
Phone: 757/562-6637 (Office)
Phone: 757/647-9776 (Cell)

Larry Nichols, Program Manager – Office of Plant Industry Services
Phone: 804/786-3515 (Office)
Phone: 804/221-0961 (Cell)

TRAPPING SCHEDULE

Cycle 1	Trap Installation	July 29 – August 28
Cycle 2	Trap Service	August 29 – September 18
Cycle 3	Trap Service/Change Kill Strip	September 19 – October 9
Cycle 4	Trap Service	October 10 – October 30
Cycle 5	Trap Removal	October 31 – November 20

SUMMARY

To keep the traps working well they need to be clean, bright, and easy to see from all directions. Dirty cylinders should be cleaned or replaced. In the summer, weeds will grow around the trap very quickly, and you must clear them away every time you check the trap. Position your traps in safe but visible places where they will not be destroyed by farm and highway equipment. And by all means, be courteous to the growers you are servicing.

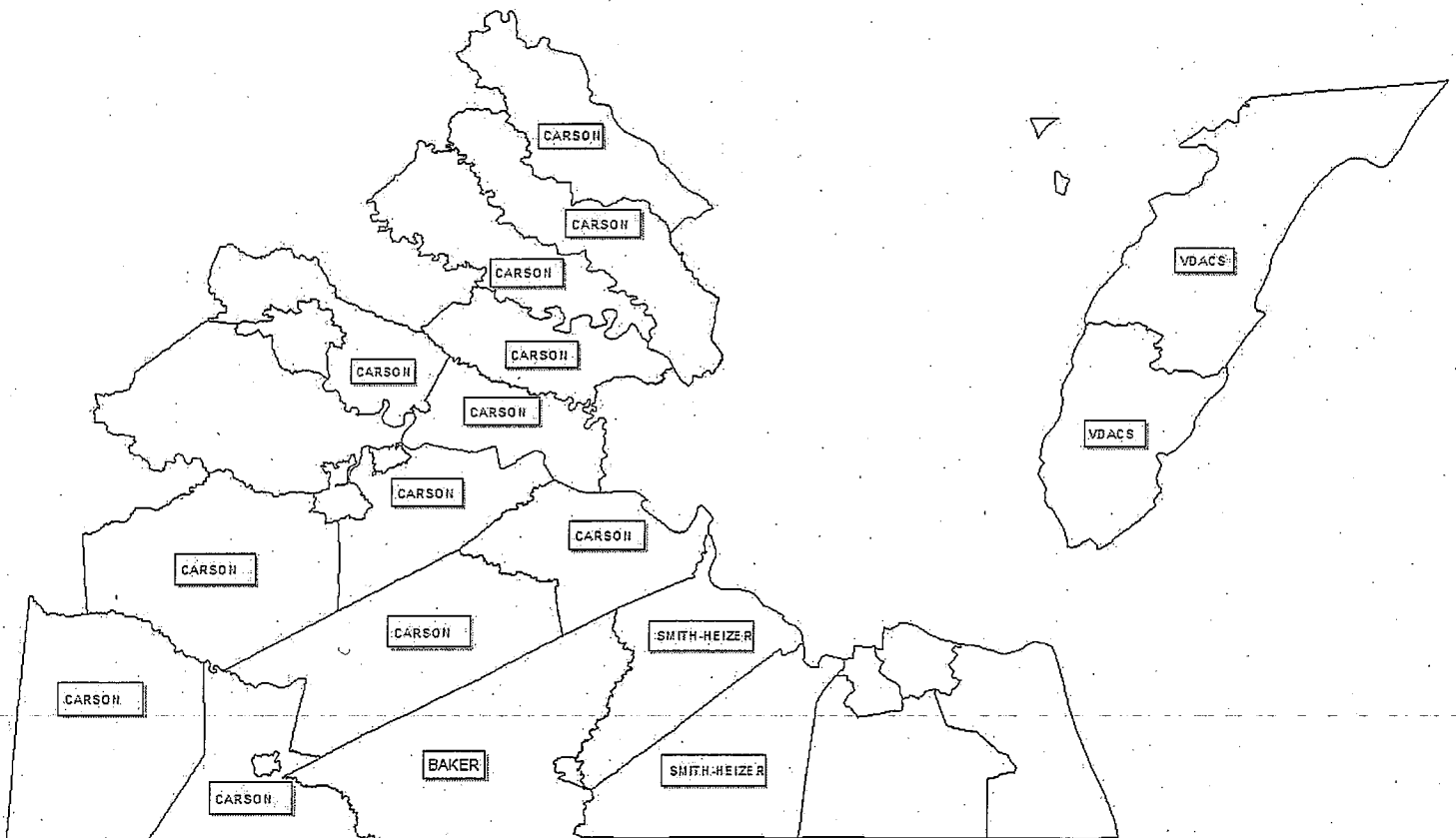
If weevils are allowed to reproduce without being detected, much of what you have done will be wasted. See pages 13-17, for information on the biology and control of the boll weevil. Check every trap on schedule and immediately report every boll weevil to VDACS and document on the Trapping Report. Do the best you can, and take pride in the quality of the trapping you do in your work unit.

Tips For Having A Successful Trapping Season:

- ***Run your traps on schedule.***
- ***Report all suspect weevils to your supervisor immediately.***
- ***Be courteous to growers. Let them know what you are finding.***
- ***Be sure flashing yellow light is operating properly and sign is placed on driver's side of vehicle whenever placing, inspecting, or removing traps.***
- ***Write the dates on the outside of every trap.***

- ***Keep traps clean and visible from all sides.***
- ***Change lures on schedule.***
- ***Keep a daily trap log and compare to Today's Work on scanner to ensure 100% of traps are checked.***
- ***Replace down traps when found. Also straighten leaning rods.***
- ***Trap all fields as instructed and place traps in "safe" locations.***
- ***Make certain all traps and fiberglass rods are removed from all cotton fields at the end of the trapping season.***

COUNTY ASSIGNMENTS



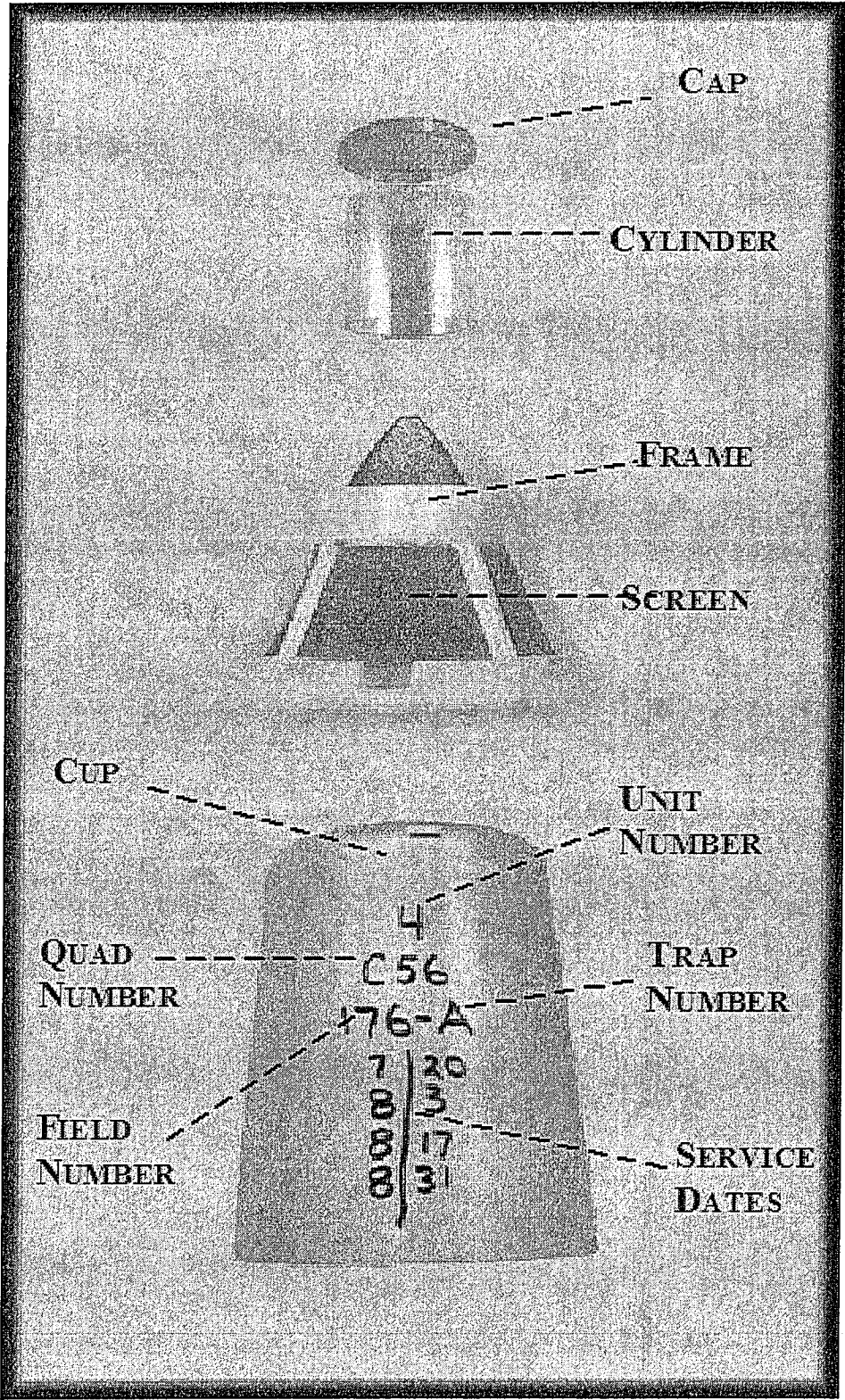
VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

Employee Livestock Biosecurity Practices When Visiting Farms, Livestock Markets or Other Places of Animal Assemblage

- Wear clean coveralls or outer garments.
- Change and clean coveralls or outer garments as needed when contact is made with animal secretions or excretions.
- Wear footwear suitable for scrubbing.
- Scrub footwear with a brush and a sanitizing solution.
 - Vircon-S is the sanitizing agent of choice. Follow manufacturer's recommendations for dilution and shelf life.
- An alternative to scrubbing footwear is to use disposable shoe and boot covers and dispose of the covers after each visit.
- If necessary, and when recontamination can be avoided, wash and sanitize vehicle tires using a brush and the same sanitizer as used on footwear. If recontamination cannot be avoided when exiting a farm, look for opportunities to wash and sanitize the vehicle before entering the next farm.
- If a producer, livestock market, etc. has more stringent biosecurity requirements than those listed, then VDACS employees should follow those specific requirements.

NOTE: If you have traveled to any foreign country, contact the Division of Animal Industry Services, State Veterinarian's Office for specific guidance before resuming your work in visiting farms, etc.

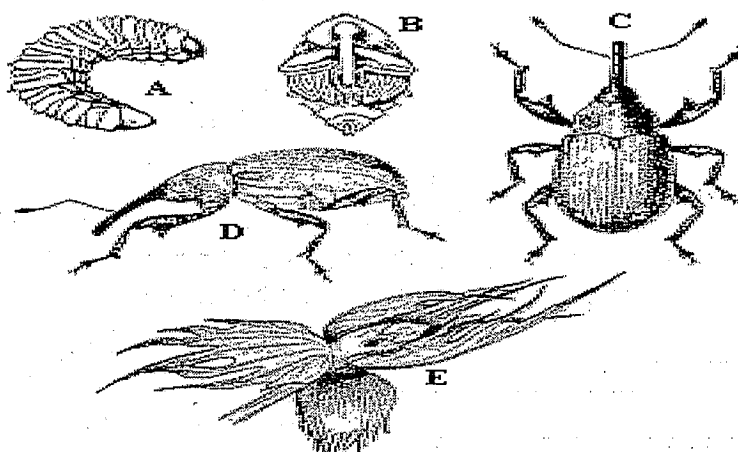
Cotton Boll Weevil
Trap Components



Boll Weevil

Anthonomus grandis grandis

Boheman, Curculionidae,
COLEOPTERA



Boll weevil. A, Larva. B, Pupa. C-D, Adults. E, Damage.

DESCRIPTION

Adult - The adult weevil measures from 3 to 8.5 mm ($1/8$ - $3/8$ inch - average $1/4$ inch) from the tip of the snout to the tip of the abdomen. It is usually reddish or grayish-brown though its color may vary (yellowish-brown to dark brown or nearly black) according to its age and size. The conspicuous snout is about half as long as the body. It has close-fitting smooth wing covers with fine parallel lines and are covered with short gray down or fuzz. The most distinctive characteristic is the double-toothed spur on the inner surface near the end of each front femur, the inner one being much longer than the other. A single tooth is also found on the middle femur.

Egg - The pearly white egg is elliptical and approximately 0.85 mm (less than .04 inch) long. The soft shell permits the egg to fit into almost any cavity.

Larva - The newly hatched larva is inconspicuous, being only slightly larger than the egg. The mature larva is white, legless, and about 13 mm ($1/2$ inch) long. Its head and mouthparts are brown; its body is curved and wrinkled.

Pupa - White at first, the pupa becomes brown as it develops.

BIOLOGY

Distribution - At some time prior to 1894, the boll weevil spread into the United States from Mexico. It now occurs throughout the cotton belt east of the high plains of Texas and may now be found in some areas of Arizona.

Host plants - In North Carolina and Virginia, cotton is practically the only host plant of the boll weevil.

Damage - Injury is caused by both adults and larvae. Although adult females prefer squares, they oviposit into both squares and young bolls and seal the holes with excrement. Egg punctures become small, nipple-like protuberances. Larvae (developing within the cavities) then feed within the squares, causing the bracts to open or "flare," the color to fade to a yellowish-green, and the plant to shed the infested squares. Limited feeding on the squares and bolls by adults usually does not result in shedding, but cotton fiber is sometimes ruined.

Boll-rotting fungi may enter through egg and feeding punctures.

Life history - Boll weevils overwinter as diapausing adults sheltered under leaf litter, in woods, in weeds and along fence rows and ditch banks surrounding cotton fields. These adults begin to emerge as early as February in southerly areas and continue through early July, with peak emergence during late May and early June. In early spring the weevils feed primarily on terminals of cotton seedlings, but egg-laying does not occur until squares are present. Adult females make a small cavity in each square into which they deposit a single egg. First generation females lay an average of 200 eggs, while late summer generations may average only 5 eggs per female. Eggs usually hatch in 2 to 4 days depending upon the temperature.

After the larvae begin to feed, the infested squares yellow, flare, and drop from the plant in about 3 days. Depending upon the temperature and nutritional value of their food, larvae complete their development in 7 to 12 days and then transform into pupae within the squares. This stage lasts from 3-1/2 to 8-1/2 days. Newly formed adults remain in squares 1-1/2 to 2-1/2 days before chewing their way out. Because of the prolonged emergence of overwintering adults, distinct generations are difficult to recognize; however, in North Carolina and Virginia there are usually four generations per year.

CONTROL

Satisfactory control depends upon a combination of cultural and chemical methods. Recommended cultural practices include (1) early planting, (2) stimulating rapid growth by thorough preparation of the seed bed, by adequate fertilization and by recommended weed control practices, and (3) selection of early maturing varieties specifically adapted to local areas. The main objective of these practices is to hasten the development of cotton plants and set a crop before weevils become abundant. The application of a chemical defoliant toward the end of the season speeds up harvesting and allows crop residue to be destroyed as early as possible. As a result, potentially diapausing weevils are left without a food source.

Insecticidal controls include in-season and diapause applications. Regular in-season applications are used to control weevils during the major period of fruit set and boll maturity; these applications should be based on weekly weevil counts and damage. Initial insecticide applications are made when 10 percent of the squares are punctured. Insecticide applications are frequently used to reduce the diapausing (overwintering) weevil population. This practice delays the need for in-season insecticides the following year. When warranted, treatments should start at the onset of diapause and continue until fields no longer afford the boll weevil food and breeding sites.

FACTS ABOUT THE BOLL WEEVIL

1. Moisture is the main factor that influences boll weevil emergence in the spring. High temperature without moisture will not bring any weevils out of hibernation.
2. The main factor influencing boll weevil migration is their available food supply. Weevils emerging from hibernation prefer squaring cotton.
3. An overwintered boll weevil will live an average of 5.7 days if it emerges before the cotton is up.

4. An overwintered female boll weevil will live an average of 31 days in young cotton before it begins to square. An overwintered male boll weevil will live an average of 36 days in young cotton before it begins to square.
5. Male boll weevils will live about 20 days in cotton that is fruiting and females will live about 16 days.
6. Approximately 40% of overwintered boll weevils emerge into cotton fields after June 15th.
7. An overwintered female boll weevil can lay an average of 160 eggs.
8. A female boll weevil will lay an average of 7 eggs per day with a maximum of 33 possible.
9. It takes an average of 18 days for a boll weevil to develop inside a cotton square. As Eggs: 3 days; as Larvae: 7 to 14 days; and as Pupae: 3 to 5 days.
10. A square must be about 5 days old before it is attacked by boll weevils.
11. A square that is 7 days old to 3 days before blooming is preferred by boll weevils.
12. A boll must be about 12 to 20 days old before it is safe from weevil attack.
13. A square will remain on the plant about 7 days after being punctured.
14. A female boll weevil must be about 5 days old before she can lay eggs.
15. After mating, the eggs will develop in the female boll weevil only after she has fed on squaring cotton.
16. The proportion of male to female boll weevils is 60% males and 40% females.
17. A feeding puncture made by a male boll weevil will cause a square to shed.

RESUME OF ANTHONOMUS GRANDIS a.k.a. COTTON BOLL WEEVIL

OBJECTIVE: To become dictator of cotton production practices across the Southeast. To use my position as primary insect enemy of cotton and to intimidate growers into using ever more costly insecticides or to get out of production altogether.

QUALIFICATIONS: Can complete entire life cycle--egg, larvae, pupa, adult--in 3 weeks or less. Can produce 8 plus generations a year of hungry weevils. Can lay 200 eggs per female. Can lay each egg in a separate cotton square or boll, ensuring destruction of all. By laying eggs inside the cotton plant, protect all offspring from chemical treatments until they emerge as adults. Can spread rapidly, advancing 40-160 miles per year. Can dictate the entire pest control strategy of a grower. Through tyrannical demands for frequent control, will destroy beneficial

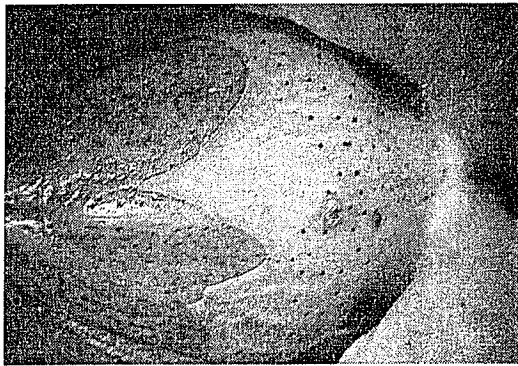
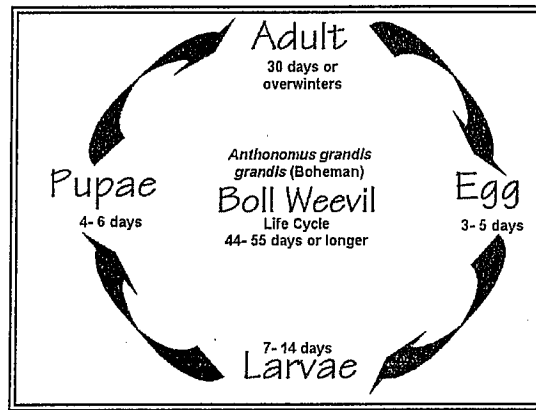
insects and upgrade formerly minor pests to major threats, requiring costly control measures.

PREVIOUS EXPERIENCE: Southern United States: 1892-Present. The bane of cotton growers in the South for almost a century. Since entering fields in the United States from Mexico, caused \$100 million of damage annually, totaling a \$12 billion drain to the economy. Ability to travel over long distances and infest cotton fields often confounding efforts by growers, trappers, and regulators to keep me out of their states. As I always say, "You can't keep a good weevil down!"

PERSONAL DATA: As adult, tan to dark brown or dark gray. One-quarter to one-half inch long. Characteristic snout accounting for about one-fourth of total length. Hard, humpback-shaped shell. Progeny up to 200.

REFERENCES: USDA calls me the "number one agricultural pest in America". National Cotton Council recognizes me as "number one enemy of efficient production." Producers all have choice words for referring to me. Provided upon request, and usually with little prompting.

If you need to contact me, just fail to check your traps on schedule and I'll be there before you know it.



Puncture Wound on Cotton



Adult Boll Weevil



Boll Weevil Egg



Boll Weevil Larva



Boll Weevil Pupa



Adult Boll Weevil

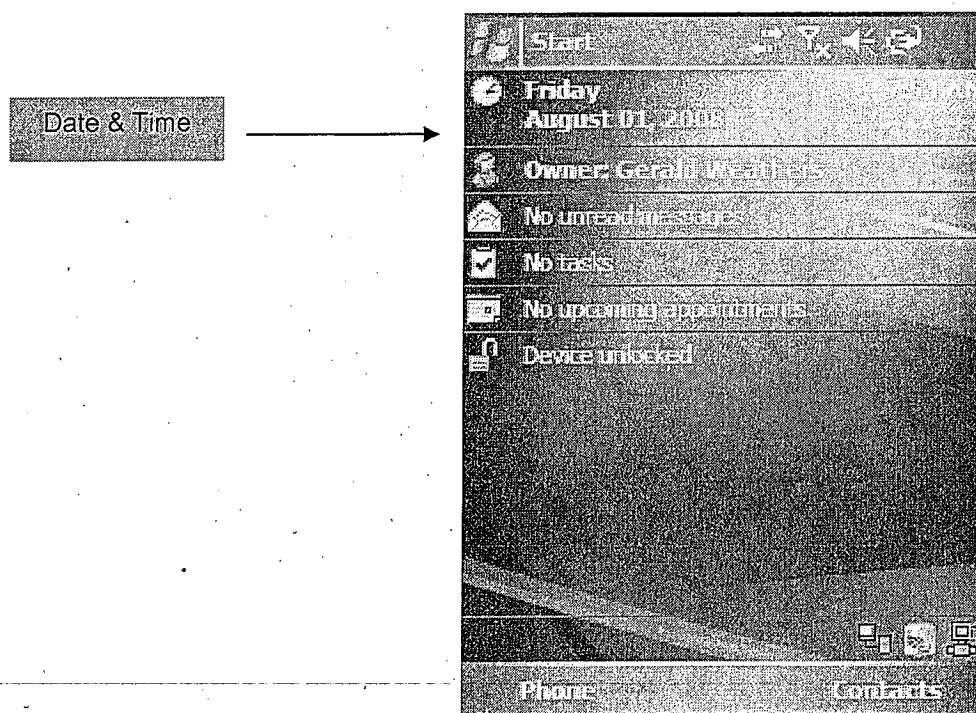
INSTRUCTIONS FOR USING THE INTERMEC CN3 MOBILE COMPUTER for POST ERADITION TRAPPING

SCANNER ON/OFF

- Press the yellow Power button once to power up the scanner.
- The Power button is located on the top right corner of the keyboard.
- Scanner charging when not in use. Always use surge protector when charging.

DATE AND TIME

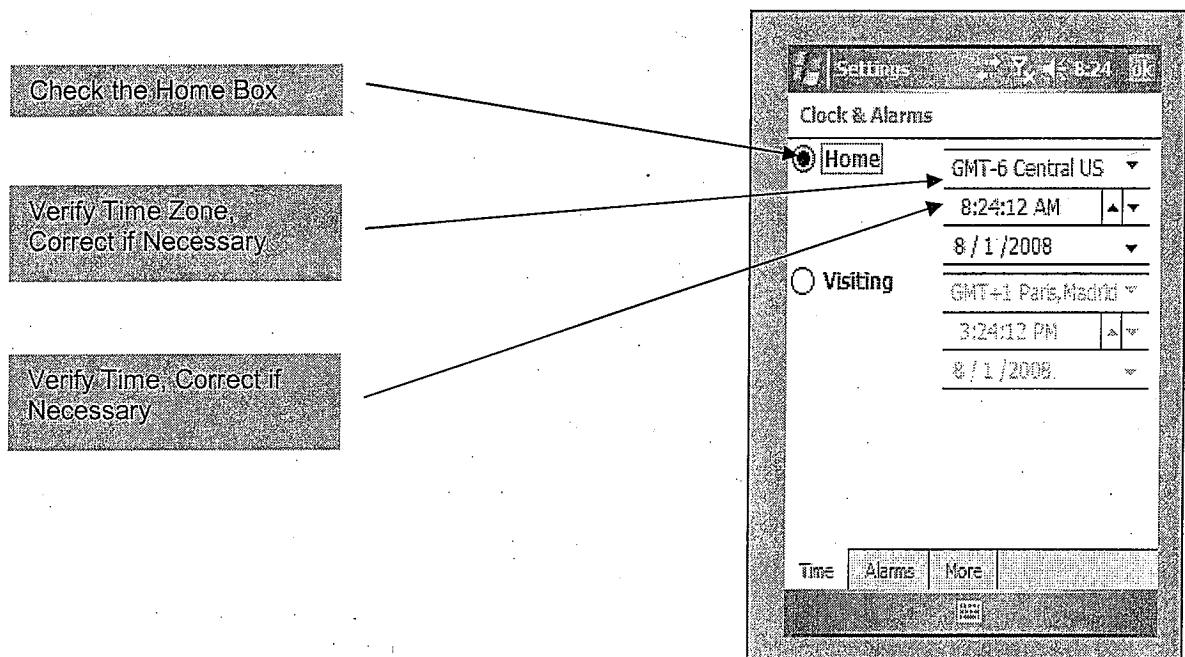
- **Always check the date and time when beginning the trapping day. Confirm date and time is correct and then press OK.**
- The date and time is located at the top of the screen



- **Date & Time** – If the date and time are correct, proceed to the SEBWEF ScanSys Program by tapping Start at the top of the screen, then tapping SEBWEF Scanner to proceed to the Log In screen

CHANGE DATE AND TIME

- If the date and time is not correct, tap the screen in the date and time location to bring up the Clock & Alarms Settings
- Make sure the Home box is checked
- Make sure your time zone is correct
- Tap on the different parts of the date and time to highlight the portion that is incorrect
- Use the stylus to scroll up and down to set the correct date and time, or you can highlight and type the correct information on the keyboard
- When finished tap – ok – in the top right corner of the screen



LOG IN

- **You must log into the SEBWEF Scan Program for your information to be saved!!!**
- Tap Start at the top left of the Home screen
- Tap SEBWEF Scanner from the list
- Tap the Trapper ID box to get a flashing cursor
- Manually key in your Trapper ID using the keypad
- Tap the PIN number box to get a flashing cursor
- Manually key in your PIN using the keypad
- Tap Log In
- Main menu appears
- When logged in properly, your State appears at the top left corner of the screen and your Trapper ID appears at the top right corner of the screen.

SEBWEF V1.2 12:14

Trapper ID 202800

Pin Number 9876

Login

SEBWEF V1.2 12:16

AL 202800

Scan Trap

Add Trap

Inaccessible

Replace

Todays Work

Move Trap

Sync

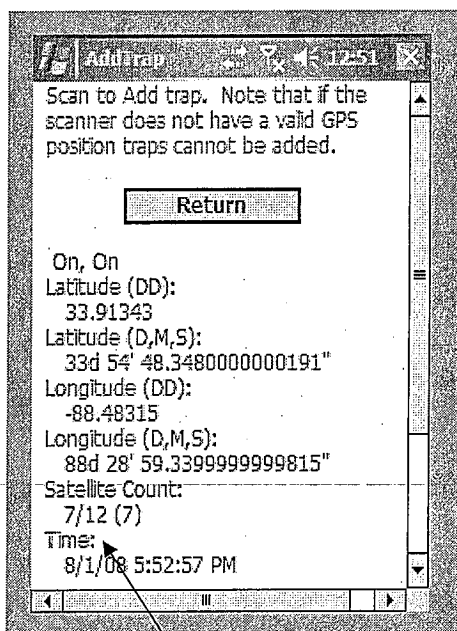
Mileage

Exit

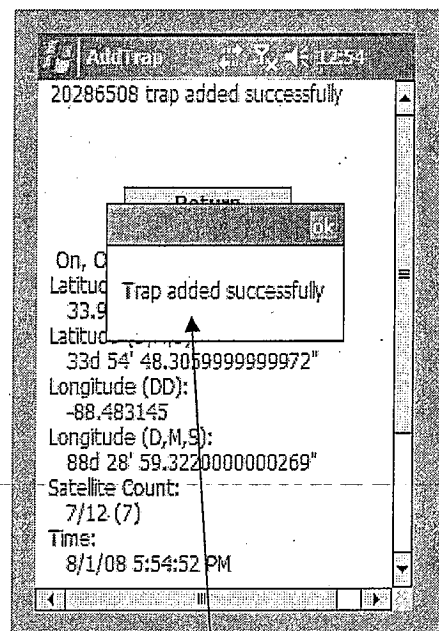
ADD TRAP

You must be logged in – always check to be sure

- Tap Add Trap one time
- Add Trap Screen appears. Note that you must have a GPS fix with a minimum of 3 satellites before the Add Trap can locate the trap correctly.
- The blue button in the center of the keyboard is the scan button, hold it down and pass the laser over the TrapID barcode you want to install.
- Scanner will beep and a message "Trap Added Successfully" will appear on the screen. The TrapID of the newly added trap will be displayed at the top of the screen.
- Continue to add traps as needed.
- If you try to add or use a TrapID that has previously been installed you will get an error message, "12345678 is already in the system, please use another number." Press ok to clear the error message.
- Continue adding traps until you are finished for the day, or time period. Tap the Return button to return to the Main Menu. Then tap Exit to leave the Scan System program.
- Press the yellow button for a couple of seconds to turn the scanner off.



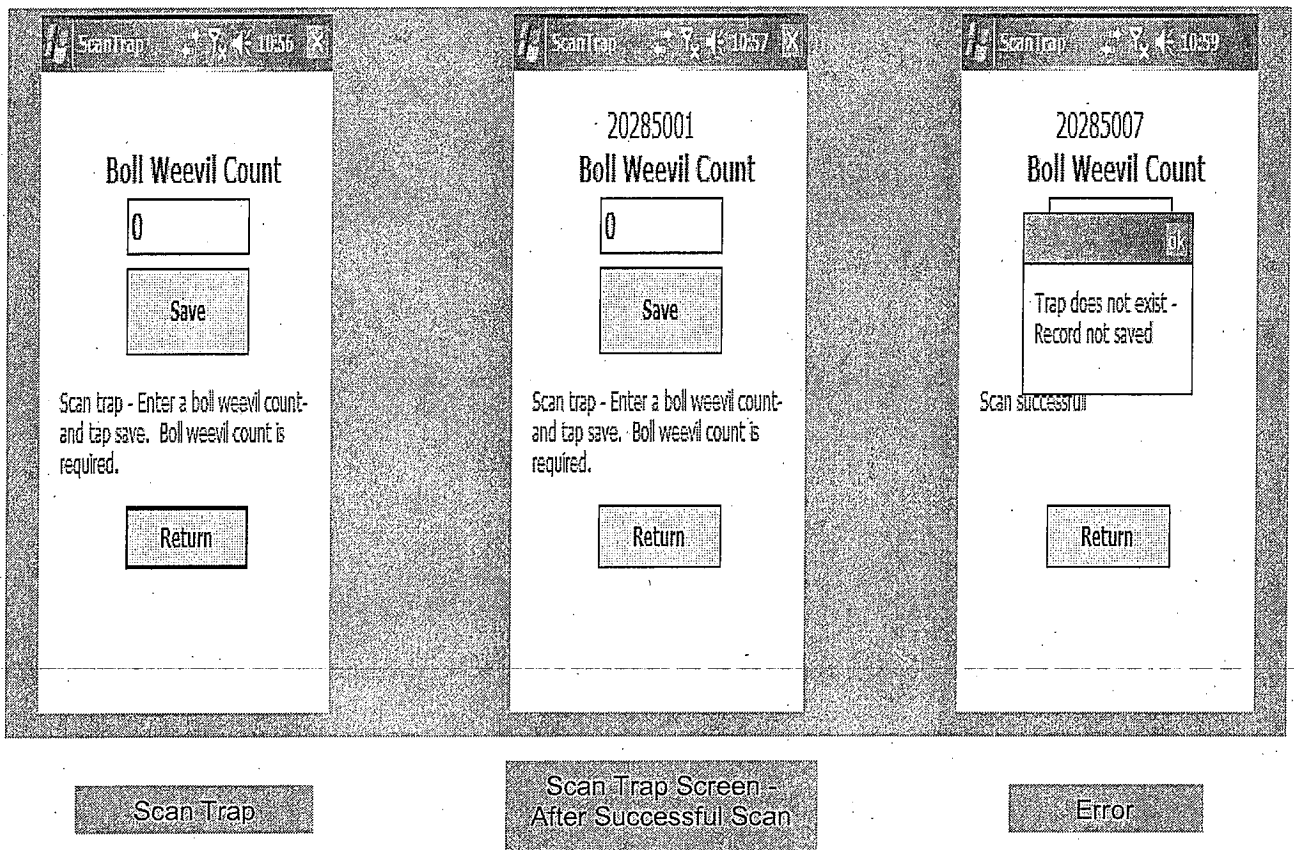
Satellite Count—
Must have 3



Successful Scan and
Trap Add

SCAN TRAP

- From the ScanSys Main Menu tap Scan Trap once
- Use the blue button in the middle of the keypad to initialize the scanner and scan the TrapID barcode. You should hear a beep and the TrapID number will be shown at the top of the screen.
- The Weevil Count defaults to "0",
 - If there are no weevils, tap Save one time
 - If there are weevils, tap to the right of the zero and backspace once (left pointing arrow at the bottom of the keypad), then manually key in the correct weevil count, once you have entered the count, tap Save one time.
- Once an installed trap has been scanned, Not Saved text appears above the CLEAR button. The barcode scanner is disabled at this point and no more traps can be scanned until the record is either **saved** or **cleared**. If a trapper returns to the home page at this point and does not CLEAR or SAVE, barcode scanner is inoperable and he/she will have to return to SCAN TRAP, press the CLEAR or SAVE button to enable the barcode scanner.
- If you scan a trap that is not in the database, you will get an error message, "Trap does not exist, record not saved"
 - Tap OK
 - Tap Return to return to the Main Menu
 - Use the Add Trap function
- Continue Scanning TrapID barcodes until you have finished for this work period, then return to the Main Menu, and use the Exit button.



REPLACE TRAP

- Tap Replace once
- Scan TrapID and follow the same procedure as Scan Trap

MOVE TRAP

- You should be in the new location with the trap to be moved in hand
- Tap Move Trap one time
- **You must have 3 satellites to acquire GPS location**
- Scan the TrapID barcode
- Press Return to return to the Main Menu

INACCESSIBLE

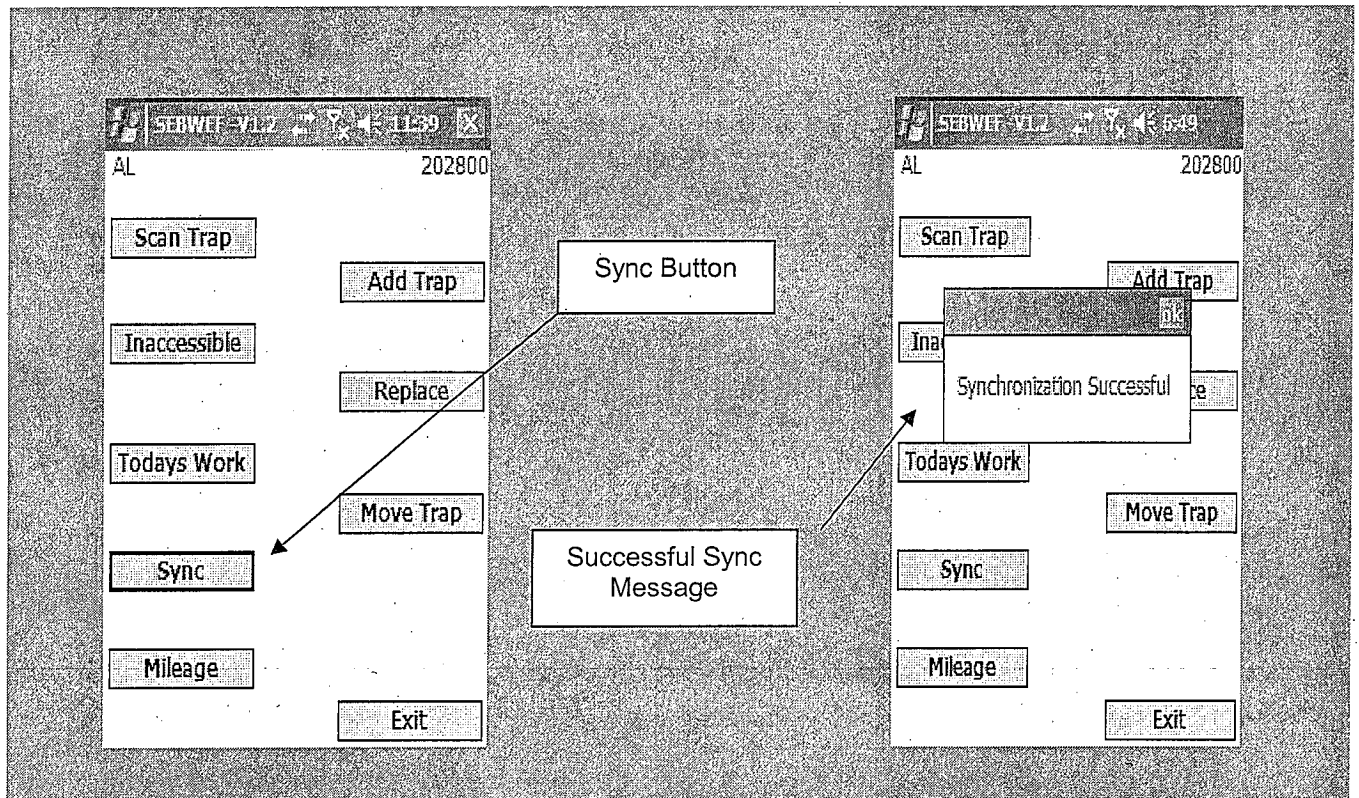
- **Very rarely used in Post Eradication, if at all**
- Tap Inaccessible one time
- Manually key in the eight digit TrapID barcode for the trap that cannot be accessed. Be sure you type in the correct number!!!!
- Tap Save
- TrapID of inaccessible trap shows on the screen.

TODAY'S WORK

- Tap Today's Work one time
- All scans for the previous 24 hours are listed in tabular form
- Scroll using the stylus
- Be aware that Today's Work does not clear upon Sync as it did with the previous scanner

SYNC (UPLOAD DATA)

- Make sure the USB cable is attached to the cradle and to your computer.
- Make sure the power cord is plugged into a power source and the cradle.
- Verify you are on the internet by typing in www.sebwef.org in the URL location on the computer web browser.
- Log into the ScanSys program on the scanner and tap Sync once. As the scanner synchronizes it will appear that nothing is happening.
- Once the scanner has synchronized with the tables on the server, you will get a message box "Synchronization Successful". Tap OK to clear the box.
- Exit the program using the Exit button.
- If you get an error message, try again a little later. If you get another error, call your Program Manager or Gerald Weathers.
- Call Gerald (662-256-7786) if you would like to set up wireless synchronization





Hercon Environmental
P.O. Box 435
Emigsville, PA 17318 USA
(717)-764-1192 ph (717) 767-1016 fax

MATERIAL SAFETY DATA SHEET

SECTION I. MANUFACTURER

HERCON ENVIRONMENTAL
P.O. BOX 435 ABERDEEN RD
EMIGSVILLE, PA 17318-0435

For information or in an emergency, call
(717)764-1192

SECTION II.

HAZARDOUS MATERIAL
IDENTIFICATION SYSTEM

HEALTH = 2
FLAMMABILITY = 0
REACTIVITY = 0

SECTION III. PRODUCT INFORMATION

PRODUCT NAME: *Hercon Vaportape II*
CHEMICAL NAME of active ingredient: *Dimethyl-2,2-dichlorovinyl phosphate*
CHEMICAL FAMILY of active ingredient: *Organophosphate ester*
SYNONYMS: *Vapona, DDVP, dichlorvos*
C.A.S. NUMBER: *62-73-7*
FORMULA: *C₄H₇Cl₂O₄ P*
PRODUCT FORM: *Laminated polymeric dispensers. EPA reg. no. 8730-50*

SECTION IV. PHYSICAL PROPERTIES

BULK DENSITY: *N/A* SPECIFIC GRAVITY/25°C: *N/A*
MELTING POINT: *300°F* BOILING POINT: *N/A*
FREEZING PT: *N/A* pH: *N/A*
PERCENT VOLATILE by volume: *Not Available*
ODOR DESCRIPTION: *Mild Chemical* VAPOR DENSITY (AIR = 1): *N/A*
VAPOR PRESSURE (20°C, mm HG): *Not Available*
SOLUBILITY IN WATER: *Not established*

SECTION V. PRODUCT HAZARD INFORMATION

PERCENT HAZARDOUS COMPONENT IN PRODUCT: *10.75% DDVP and related compounds*
OCCUPATIONAL EXPOSURE LIMITS: *1 mg/m³*

.....Continued

SIGNS AND SYMPTOMS OF OVEREXPOSURE: **Acute:** Cholinergic effects; vision problems, nausea, headache, shortness of breath; **Chronic:** Same as acute, plus tension, insomnia, loss of appetite, apathy, trembling and confusion.

EMERGENCY AND FIRST AID PROCEDURES: *Dichlorvos* is a cholinesterase inhibitor.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 -20 minutes.

Remove contact lenses if present after the first 5 minutes then continue rinsing eye.

Call a physician immediately. **IF ON SKIN:** Take off contaminated clothing. Rinse skin

immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice. **IF INHALED,** move person to fresh air. If person is not

breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-

to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED, Call a poison control center or doctor immediately for treatment.

Have the person sip a glass of water if able to swallow. Do not induce vomiting unless

told to do so by the poison control center or doctor. Do not give anything by mouth to

an unconscious person. Have the product container or label with you when calling a

poison control center or doctor or going for treatment. Note to Physician: Atropine

sulfate is the antidote of choice.

SECTION VI. FIRE HAZARD INFORMATION

FLASH POINT: N/A

FLAMMABLE LIMITS in air: N/A

EXTINGUISHING MEDIA: Carbon dioxide, foam

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use air-supplied equipment. Wear complete fire fighting gear, including protective gloves, eye protection and self-contained breathing apparatus. Do not inhale fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits toxic CO and CO₂ fumes when burned. Contact with unburned vaporized *dichlorvos* can be hazardous to health.

SECTION VII. REACTIVITY INFORMATION

PRODUCT STABILITY: UNSTABLE _____ STABLE _____ X

HAZARDOUS POLYMERIZATION: May Occur _____ May Not Occur X

INCOMPATIBLE SUBSTANCES: *Dichlorvos* is corrosive to black iron/mild steel. In absence of moisture, non-corrosive to aluminum, nickel, hastelloy B and stainless steel (Type 316).

HAZARDOUS DECOMPOSITION PRODUCTS: Products of *dichlorvos* combustion may be inorganic acids, phosphorus compounds and chlorinated organic compounds. The polymeric dispenser may produce CO, CO₂, HCL and CL₂.

SECTION VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Place unpouched strips in tightly sealed containers. Clean area with a dilute caustic, followed by water.

Collect the caustic and the water and dispose as hazardous waste. **WASTE DISPOSAL**

METHOD: Incinerate or otherwise manage at RCRA permitted waste management

facility. Do not reuse empty containers. Check state and local authorities for other options.

.....Continued

SECTION IX. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: *Usually none required under normal usage, but use of respirators fitted with filters suitable for organic vapors and acids are recommended for continuous handling.*

EYE PROTECTION: *Usually none required*

VENTILATION: *Local exhaust is recommended.*

PROTECTIVE GLOVES: *Usually none required under normal usage, but vinyl, latex or rubber gloves are recommended for continuous handling.*

OTHER PROTECTIVE EQUIPMENT: *None under normal usage.*

NOTE: *Personal protection information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.*

SECTION X. HANDLING AND STORAGE PRECAUTIONS

GENERAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: *Store in sealed pouches in a cool, dry place. To maintain product integrity protect from high temperatures. Keep container closed. Launder contaminated clothing before use. Wear protective equipment described above if exposure conditions warrant. Do not allow to contaminate water sources, food or feed.*

SPECIAL PRECAUTIONARY CONDITIONS: *None.*

SECTION XI. TRANSPORTATION DATA

DOT LABEL: *None required, non-hazardous material.*

SECTION XII. DISCLAIMER

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise material safety data sheets periodically as new information becomes available. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. Hercon Environmental assumes no responsibility for any damages, losses, injuries or consequential damages which may result from the use or misuse of this product and the recipient assumes all such risks.

MSDS NUMBER 100311/314 DATE ISSUED: 2 Jan. 1986 (LZ)
BY: Priscilla MacLean DATE REVISED: 26 Feb. 2005
TITLE: Product Development Manager